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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,450	07/16/2003	Yoshinori Nakajima	00862.023133.	7695
5514	7590	01/13/2005	EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112			NGUYEN, THINH H	
			ART UNIT	PAPER NUMBER
			2861	

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/619,450	Applicant(s) NAKAJIMA ET AL.	
	Examiner Thinh H Nguyen	Art Unit 2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 22-26 is/are allowed.
- 6) ☒ Claim(s) 1-6,9-13 and 16-21 is/are rejected.
- 7) ☐ Claim(s) 7,8,14 and 15 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/12/03; 10/27/03</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6, 9-13, 16-21 are rejected under 35 U.S.C. § 102(b) as being anticipated by prior of record to Koitabashi. (EP 885732)

Re claims 1, 10, 16, and 19, Koitabashi (figs. 6, 16) discloses elements of the instant claimed printing method of a respective inkjet printhead having first and second printing elements which discharge relatively different amounts of ink, comprising:

storage means (characterized by shift register 602; fig.6) for sequentially storing print data that is serially inputted;

holding means (characterized by latch circuit 603) for holding the print data stored in said storage means;

a driving control circuit (characterized by block selection circuit 604) for driving respective printing elements in accordance with a selection signal indicative of which of the first or second printing element is to be driven, the print data held by said holding means, and a driving signal indicative of a driving period (characterized by driving a pair of nozzle in cycle; see page 9, lines 48-53); wherein the print data is inputted to either the first or second printing element. (Characterized by odd or even print data)

a signal line (characterized by O/E signal line 625), to which the print data and the selection signal are serially inputted.

Re claims 2, 3, 11, and 12, wherein the array of printing elements includes a same number of the first and second printing elements that are arranged alternately, and is configured such that one print data is inputted to a pair of adjacent first and second printing elements. (fig.16; p.9, l.48-53)

Re claims 4, 13, wherein the selection signal is serially inputted subsequent to the print data and is separated from an output of said holding means. (Characterized by odd and even data is separated by selection circuit 604)

Re claims 5, 6, wherein the array of printing elements is provided for at least two colors so as to enable color printing using plural colors; and wherein the plural colors include cyan, magenta, yellow, and black. (see p.5, lines 2-4)

Re claim 9, wherein the printing elements perform printing by utilizing heat energy (p.14, lines 3-4).

Re claims 17, 20, wherein the print data is serially inputted to said signal line subsequent to the selection signal. (characterized by an input to O/E block 605)

Re claims 18, 21, wherein data for the first or second printing element is inputted per one input of the print data. (characterized by outputs from O/E block 605)

Allowable Subject Matter

3. Claims 22-26 are allowed over the prior art of record.
4. Claims 7-8, 14-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Pertinent Prior art

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent 6,019,453 to Tsuruoka.

Patent Application Information Retrieval (PAIR)

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Contact Information

7. Any inquiry concerning this communication should be directed to examiner Thinh Nguyen at telephone number (571) 272-2257. The examiner can generally be reached Mon-Wed, and Thurs from 9:00A – 5:00P. The official fax phone number for the

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organization is (703) 872-9306. The examiner supervisor, Dave Talbott, can also be reached at (571) 272-1934.

Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-1782.



Thinh Nguyen
January 5, 2005

Thinh Nguyen
Primary Examiner
Technology Center 2800